IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Evan S. Huang
Title:	Method and Apparatus for Generating Structured Documents for Various Presentations
Serial No.:	09/754,969
Filing Date:	01/05/01
Examiner:	N/A
Group Art Unit:	N/A
Docket No:	2276-02

April 23, 2001

STATEMENT OF PRE-EXAMINATION SEARCH AND DISCUSSION OF REFERENCES DEEMED MOST CLOSELY RELATED TO SUBJECT MATTER ENCOMPASSED BY THE CLAIMS

Assistant Commissioner for Patents
Box Petition Office
Washington, DC 20231

Dear Sir:

In support of the enclosed Petition to Make Application Special Under MPEP §708.02 VIII, the applicant has requested a patent search domestically and internationally by Pillsbury Winthrop, LLP. The subject matter search was performed in the Derwent database. Published patents uncovered in the patent search are enclosed herewith. In addition, the applicant has performed a pre-examination key-word search of the following databases provided by:

US Patent and Trademark Office (www.uspto.gov) and

Delphion Patent web site (www.delphion.com);

wherein www.delphion.com provides access to the following six databases:

United States (Full Text)
European (Applications);
European (Granted);
Abstracts of Japan;
WIPO PCT Publications; and
INPADOC.

The keywords used, singly or in combination, include:
XML, metafile, display, markup language, conversation, presentation, displayable objects, document elements, identifier, style sheet, document, text and/or decoration.

PTO Form 1449 listing references **A – G3**, **H - L** and **O - P** is concurrently filed hereiwth. A copy of references **A**, **H**, **O** and **P** have been submitted in an earlier submitted PTO Form 1449. A copy of references **B – G3** and **I - L** are submitted herewith. The applicant deems the references (I-X), also listed in Form PTO-1449, to be most closely related to the subject matter, or subject matters of the claims:

I. US Patent No.: 5,323,312 to Saito, et al, filed June 11, 1991, issued June 21, 1994, provides a document layout processing device and method in which a generating unit generates a data structure corresponding to a subordinate structure and holding information about the generation of the subordinate structure in association with a superior element having the subordinate structure. The subordinate structure includes at least one element which can be generated as an element immediately subordinate to the superior element among elements constituting the layout structure common to the plurality of documents.

II. US Patent No.: 5,504,891 to Motoyama, et al, filed June 13, 1994, issued Apr. 2, 1996, discloses a method and system for converting a document from a clear text representation to a binary representation by using

a length control stack to keep track of the elements as they are being converted. The length control stack allows the clear text to binary conversion process to proceed without knowing the length of each hierarchical level until the level is completely finished.

III. US Patent No.: 5,506,985 to Motoyama, et al, filed March 9, 1994, issued Apr. 9, 1996, discloses a method and apparatus for conversion of a document from one format to another format. As an input file in format of binary elements is being converted, attribute values are stored in an attribute buffer. Before an output file is generated, as the file is being converted, each converted cleartext line is written into a double linked list data structure. After the entire file has been converted and written into the double linked list data structures, the information from the double linked list data structures is written to the output file.

IV. US Patent No.: 6,006,242 to Poole et al, filed April 5, 1996, issued Dec. 21, 1999, discloses an apparatus and method for dynamically constructing electronic and printable documents and forms. An entity reference is read from a document instance and compared to entity identifiers provided in a catalog containing a plurality of entity identifiers. Each of the entity identifiers in the catalog is associated with an entity resolution process. An inference engine or other entity resolving processor is invoked to effectuate the resolution process associated with a matching entity identifier. The inference engine or entity resolving processor resolves the entity reference to a resolved entity, such as a component of text or graphics to be included in a document. Linking between the document, entity reference, and resolved entity provides for detailed auditing of the entity resolution process.

V. US Patent No.: 6,085,196 to Motoyama, et al, filed Dec. 23, 1997, issued Jul. 4, 2000, discloses an object-oriented system and computer program product for mapping structured information to different structured

information, which allows a user to interactively define the mapping. The invention operates as an object-oriented user tool by accepting interactive input from a user of a source input, by processing the input to display the source input in a format for accepting and processing user commands to create or edit a transformation map of source components to target components. Interactive user input is then accepted and processed for selection of an input file to be transformed and selection of a transformation map to be used for the requested transformation. Interactive user input is accepted and processed for selection of individual components of the first structured information format for mapping, and for selection of options for the target components.

VI. US Patent No.: 6,083,276 to Davidson, et al, filed Jun. 11, 1998, issued Jul. 4, 2000, provides a method and system for creating and configuring a component-based application through simple, XML-compliant, text-based document. In accordance with the present invention, a parse tree is created from an application description file. Thereafter, the parse tree is transformed into a plurality of components corresponding to instances of classes in an application framework. The components are then initialized and further processed to launch the component-based application.

VII. US Patent No.: 6,009,436 to Motoyama, et al, filed Dec. 23, 1997, issued Dec. 28, 1999, discloses an object-oriented system and computer program product for mapping structured information to different structured information, which allows a user to interactively define the mapping. The invention operates as an object-oriented user tool by accepting interactive input from a user of a source input, by processing the input to display the source input in a format for accepting and processing user commands to create or edit a transformation map of source components to target components. Interactive user input is then accepted and processed for selection of an input file to be transformed and selection of a transformation

map to be used for the requested transformation. Interactive user input is accepted and processed for selection of individual components of the first structured information format for mapping, and for selection of options for the target components.

VIII. US Patent No.: 6,163,779 to Mantha, et al, filed Sep. 29, 1997, issued Dec. 19, 2000, discloses a method of copying a Web page presented for display on a browser of a Web client. The Web page comprises a base HTML document and a plurality of hypertext references, one or more of which may be associated with embedded objects (such as image files). The operation begins by copying the base HTML document to the client local storage and establishing a pointer to the copied document. A first linked list of the hypertext references in the base document is then generated.

IX. US Patent No.: 6,199,082 to Ferrel, et al, filed Jul. 17, 1995, issued Mar. 6, 2001, discloses a multimedia publishing system designed for creating publications by separating the content and design which enables transmission of high-quality titles over low-speed communications links subject to loss of connectivity.

X. EP 0 768 612 A2 to Sat et al, published April 16, 1997, discloses a method and apparatus of generating a structured document matching the document structure of each non-structured document. The operation extracts a keyword representative of the document structure from a non-structured document by using a keyword extracting rule to generate a keyword/text model of an abstract which represents the non-structured document as an aggregation of elements constituted by keywords and other strings.

However, the claimed subject matter is distinguishable with particularity over the above patents/publications by:

claim 1's " ...displaying a metafile along with the definition file, the metafile including a number of displayable objects and respective decoration attributes about each of the displayable objects; and associating at least one of the definitions in the definition file with one of the displayable objects";

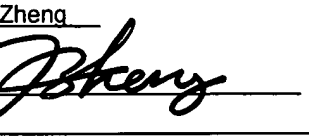
claim 15's "...activating an environment including a first display and a second display, the first display displaying a metafile and the second display displaying a definition file including document type definitions (DTD), wherein the metafile including a number of displayable objects and respective decoration attributes about each of the displayable objects, and wherein each of the document type definitions includes an identifier; grouping a number of group objects, each of the group objects including a number of the displayable objects...";

Further claims 25 and 39 have the similar distinctions as outlined above. Hence, the applicant believes that claims 1, 15, 25 and 39 and thus their dependent claims also, are each patentable over US Patent Nos.: 5,323,312, 5,504,891, ,506,985, 6,006,242, 6,085,196, 6,083,276, 6,009,436, 6,163,779, 6,199,982 and EPO publication EP 0 768 612 A2, listed in paragraph I-X above.

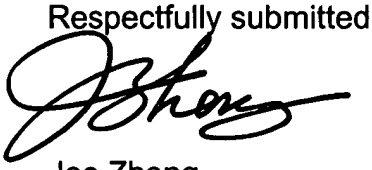
Please telephone the undersigned at (408)777-8873, if there are any questions.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to "Commissioner of Patents and Trademarks, Washington, DC 20231", on April 23, 2001.

Name: Joe Zheng

Signature: 

Respectfully submitted;



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